

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/001736

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 G01N 21/84 G01N 33/49 C12Q 1/06**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G01N 21/00, 21/84, G01N 33/00, 33/49, C12Q 1/00, 1/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | US 5428451 A (DIATEC INSTRUMENTS A/S) 27 Jun 1995<br>see abstract; figure 1; column 1, line 59 - column 2, line 50; column 5, lines 9-23 | 1, 4-7, 10-12, 15, 16 |
| Y         | see column 5, lines 43-62  | 2, 3, 8, 9, 13, 14    |
| Y         | US 5976892 A (BIOCOM, S. A.) 2 Nov. 1999<br>see abstract; figure 1; column 4, lines 37 - 56  | 1-16                  |
| A         | KR 2001-0031949 A (KOWA K. K.) 16 Apr. 2001<br>see the whole document  | 1-16                  |
| A         | KR 2001-0017092 A (Kim, Panku and Kim, Kyungsoo) 5 Mar. 2001<br>see the whole document   | 1-16                  |
| A         | US 5366867 A (NIHON MILLIPORE KOGYO) 22 Nov. 1994<br>see the whole document  | 1-16                  |
| A         | WO 2000-39329 A1 (SAPPORO BREWERIES LTD.) 6 Jul. 2000<br>see the whole document  | 1-16                  |

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

28 OCTOBER 2004 (28.10.2004)

Date of mailing of the international search report

29 OCTOBER 2004 (29.10.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Sang Hee

Telephone No. 82-42-481-5974



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/001736

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| US 5428451 A                              | 27.06.1995          | CA 2071838 A               | 08.06.1991          |
|   |                     | AU 6757990 A1              | 18.07.1991          |
|   |                     | DE 69007118 C0             | 07.04.1994          |
|   |                     | EP 504185 A1               | 23.09.1992          |
|   |                     | JP 5501609 T2              | 25.03.1993          |
| US 5976892 A                              | 02.11.1999          | FR 2719602 A1              | 10.11.1995          |
|   |                     | EP 758400 A1               | 19.02.1997          |
|   |                     | JP 09-512713 T2            | 22.12.1997          |
|   |                     | DE 69513393 C0             | 23.12.1999          |
| KR 2001-0031949 A                         | 16.04.2001          | WO 9924831 A1              | 20.05.1999          |
|   |                     | CA 2309281 A               | 20.05.1999          |
|   |                     | AU 9763198 A1              | 31.05.1999          |
|   |                     | EP 1031834 A1              | 30.08.2000          |
|   |                     | CN 1285916 T               | 28.02.2001          |
|   |                     | IL 0135934 A0              | 20.05.2001          |
|   |                     | US 6667177 A               | 23.12.2003          |
| KR 2001-0017092 A                         | 05.03.2001          | NONE                       |                     |
| US 5366867 A                              | 22.11.1994          | EP 563858 A1               | 06.10.1993          |
|   |                     | JP 05-328995 A2            | 14.12.1993          |
|   |                     | DE 69311944 C0             | 14.08.1997          |
| WO 0039329 A1                             | 06.07.2000          | CA 2322072 A               | 06.07.2000          |
|   |                     | EP 1067199 A1              | 10.01.2001          |
|   |                     | US 6385272 A               | 07.05.2002          |